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**From:** Alex Ferreira [aferreira@mlschools.org]  
**Sent:** 8/4/2022 3:29:06 PM  
**To:** RecycledTireCrumb [RecycledTireCrumb@epa.gov]  
**CC:** Jones, Marjorie [Jones.Marjorie@epa.gov]  
**Subject:** Re: Federal research of recycled tire crumb used on playing fields

Dr. Zambrana,

Thank you for your response and detailed information. The district is looking into replacing our existing playground and the surface material has been a point of conversation by the Board. In an effort to provide them with the information they need to make an informed decision, the committee has been looking at some of the resources you listed, and we wanted to see if there was an ETA on the release of Part 2.

Once again, I appreciate your update and guidance on the matter.

Alex Ferreira,  
School Business Administrator /  
Board Secretary

On Thu, Aug 4, 2022 at 11:21 AM RecycledTireCrumb <[RecycledTireCrumb@epa.gov](mailto:RecycledTireCrumb@epa.gov)> wrote:

Dear Mr. Ferreira:

Thank you for your email of July 18, 2022, inquiring about the timing of Part 2 of the research findings under the Federal Research Action Plan on Recycled Tire Crumb Used on Playing Fields and Playgrounds (FRAP). The Centers for Disease Control and Prevention/Agency for Toxic Substances and Disease Registry (CDC/ATSDR) and the U.S. Environmental Protection Agency (EPA), in collaboration with the Consumer Product Safety Commission (CPSC) lead this multi-agency research effort focuses on assessing potential human exposure by conducting research to characterize chemicals associated with tire crumb rubber and to identify ways in which people may be exposed to those chemicals based on their activities on synthetic turf fields. The FRAP also includes characterizing emissions and bioaccessibility to differentiate what is present in the tire crumb rubber from what people may actually be exposed to from tire crumb rubber.

EPA and CDC/ATSDR are reporting research findings in two parts. Part 1, available now at <https://www.epa.gov/chemical-research/july-2019-report-tire-crumb-rubber-characterization-0> communicates the research objectives, methods, results, and findings for the research characterizing tire crumb rubber (i.e., what is in the material) and was released in July 2019. Part 2, to be released later, will include data to characterize potential human exposures for those who use synthetic turf fields containing tire crumb to chemicals found in the tire crumb rubber material. Part 2 will be released along with results from a biomonitoring study being conducted by CDC/ATSDR to investigate potential exposure to chemical constituents in tire crumb rubber. The biomonitoring study's field activities, including data collection, were scheduled to begin in Spring of 2020 but were postponed due to the outbreak of COVID-19. The study activities were recently re-initiated; the timeline and information about the Part 2 report and biomonitoring

study will be posted to the EPA's website as it becomes available. Neither Part 1 nor Part 2 of this study, separately or combined, will constitute a human health risk assessment for playing on synthetic turf fields that include tire crumb rubber. Results of research described in the final versions of both Part 1 and Part 2 of this study will help to fill data gaps and can inform future risk assessments.

Concerned individuals and community members are encouraged to see federal websites (CPSC - <https://www.cpsc.gov/Safety-Education/Safety-Education-Centers/Crumb-Rubber-Safety-Information-Center> and EPA – <https://www.epa.gov/tirecrumb>) to review research results available to date on the use of tire rubber in playgrounds and synthetic turf fields. The EPA website has an option to sign up to receive updates about EPA's study and includes a list of tire crumb specific web pages on state government websites. Concerned individuals can also check their state's public health agency websites to determine if there are state-specific recommendations.

Thank you for writing. Please let us know if you have any additional questions.

José L. Zambrana, Jr., PhD (*he/him/his*)

Senior Science Advisor, Center for Environmental Measurement and Modeling (CEMM)

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Ex. 6 Personal Privacy (PP) mobile]

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**From:** Alex Ferreira <[aferreira@mlschools.org](mailto:aferreira@mlschools.org)>

**Sent:** Monday, July 18, 2022 7:09 AM

**To:** RecycledTireCrumb <[RecycledTireCrumb@epa.gov](mailto:RecycledTireCrumb@epa.gov)>

**Subject:** Federal research of recycled tire crumb used on playing fields

Good afternoon.

I came across this project on the EPA site, and wanted to see if there was an anticipated release date for Part 2 (potential exposures) of the report.

Thanks,

Alex Ferreira,

School Business Administrator /

Board Secretary

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